ACKNOWLEDGEMENTS

I wish to express my profound and sincere gratitude to Dr. Mahendra Kumar Mohanty, Department of Farm Machinery and Power, OUAT, Bhubaneswar and Prof. Dr. Ramesh Chandra Mohanty Department of Mechanical Engineering, CUTM, Paralakhemundi, who guided me into the intricacies of this project with matchless magnanimity.

I thank Dr. M. L. Narasimham, Dean, Academic Affairs, CUTM, Paralakhemundi and Dr. Anita Patra, Dean, SOET CUTM for extending their support during Course of this investigation.

I would be failing in my duty if I don’t acknowledge the co-operation rendered during various stages of engine testing by Dr. S. R. Mishra, CVRCE, Bhubaneswar.

I am highly grateful to Mr. Manmohon Naik who evinced keen interest and invaluable support in the progress and successful completion of my project work.

I am indebted to the staff members of Mechanical Engineering department, CUTM for their constant encouragement, co-operation and help. Words of gratitude are not enough to describe the accommodation and fortitude which they have shown throughout my endeavour.

I am also grateful to Renewable Energy Laboratory, College of Agricultural Engineering & Technology, O.U.A.T Bhubaneswar, Odisha, India for conducting the research work.

I am indebted to my parents, brothers and sister for their blessings and support. I acknowledge the sacrifice, encouragement and moral support that I received from my wife Mamata and my daughters Anwesha and Ankankhya which helped me to complete the assignment.

Nabnit Panigrahi